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Research interests

- Economics of innovation and technological change
- Science policy
- Complex R&D networks
- Economics of environmental regulation

Degrees

Ph.D. in Economics (cum laude), Vienna University of Economics and Business Administration, Vienna, Austria, 2002. Dissertation Title: *The Techno-Economic Consequences of Environmental Regulation – The case of Austrian VOC emission standards*

Master of European Business (MEB), Community of European Management Schools, Vienna, Austria, and Rotterdam, The Netherlands

MA in Commerce (Vienna University of Economics and Business Administration, Vienna, Austria, 1997)

Other Education

Econometrics I, Institute of Advanced Studies (IHS), January to March 2005, Vienna, Austria (taught by Professor Harry H. Kelejian, University of Maryland)

The Role of Social Interactions and Networks in Economics, Urrutia Elejalde Foundation, July 2003, San Sebastian, Spain

European Summer School on Industrial Dynamics (ESSID), September 2000&1999, Cargese, France

Economics of Technological and Institutional Change (ETIC) Doctoral Training Program, April&October 1999, Strasbourg, France&Maastricht, Holland

Positions

Researcher, Department of Technology Policy, ARC systems research, Vienna, Austria, February 2003 to July 2007.

Lecturer/Assistant Professor, Department of Economic Geography & Geoinformatics, Vienna University of Economics and Business Administration, Vienna, Austria, July 2001 to November 2002.

Marie Curie Host Fellow, MERIT, University of Maastricht, Maastricht, The Netherlands, February to June 2001.

Visiting Researcher, Center for Interdisciplinary Research (ZIF), University Bielefeld, Bielefeld, Germany, November to December 2000.

PhD Scholar, Research Associate, Systems Research Technology-Economy-Environment, Austrian Research Centers Seibersdorf, Seibersdorf, Austria, January 1998 to October 2000.

Research Associate, Institute of Industrial Science, Vienna, Austria, January 1998 to September 1998

Academic Scholarships and Awards

- Stephan-Koren Prize 2003 (WU Best PhD Award)
- Marie Curie PHD 20 Scholarship, February to June 2001
- ARCS Dissertation Scholarship, January 1998 to December 1999
- Austrian Central Chamber of Labour Thesis Award, 1997
- WU Leistungsstipendium (Performance Scholarship), 1997
- WU Center of Excellence, 1995-1997
- WU Leistungsstipendium (Performance Scholarship), 1995
- EC ERASMUS Scholarship, CEMS Exchange Semester, University of Rotterdam, August to December 1995

Courses Taught and Other Teaching Activities

ARC systems research

Organiser of Department of Technology Policy Study Seminar series (since 03/03)

Co-supervision of 3 M.A. theses

Vienna University of Economics and Business Administration

Tutorial in Economic Geography (WS 01/02–SS 03), Seminar in Economic Geography (WS 01/02–WS 02/03), Seminar for masters and doctoral students in Economic Geography & Geoinformatics (WS 01/02–WS 02/03)

Co-supervision of 9 M.A. theses

Professional Memberships

- Member, International Joseph A. Schumpeter Society
- Member, Arbeitskreis Physik sozio-ökonomischer Systeme (AKSOE)

Publications and Presentations

Book

Roediger-Schluga T. (2004): *The Porter Hypothesis and the Economic Consequences of Environmental Regulation: A Neo-Schumpeterian Approach*. Edward Elgar: Cheltenham, UK and Northampton, MA, US, 368pp (ISBN 1 84376 644 2).

Refereed Journal Articles

Roediger-Schluga T. and M. Barber (2007): R&D collaboration networks in the European Framework Programmes: Data processing, network construction and selected results, *International Journal of Foresight and Technology Policy* (accepted for publication).

Barber M., A. Krüger, T. Krüger and T. Roediger-Schluga (2006): The network of EU-funded collaborative R&D projects, *Physical Review E* 73, 036132, (arXiv:physics/0509119).

Mahlich J. and T. Roediger-Schluga (2006): The determinants of pharmaceutical R&D: evidence from Japan, *Review of Industrial Organisation* 28(2), 145-164.

Roediger-Schluga T. (2003): Some microevidence on the 'Porter Hypothesis' from Austrian VOC emission standards, *Growth and Change* 34(3), 357-377.

Book Chapters/Sections

Roediger-Schluga T. (2007): Public-private R&D partnerships: Current issues and challenges. In J.C. Mahlich and W. Pascha (Eds.), *Innovation and Technology in Korea*. Springer, 105-116.

Paier M. and T. Roediger-Schluga (2006): Cooperation with Austrian enterprises and research organisations. In Gesellschaft zur Förderung der Forschung (Ed.), *Research and Development in South Eastern Europe*. Neuer Wissenschaftlicher Verlag: Vienna, Graz, 117-163.

Roediger-Schluga T. (2002): The stringency of environmental regulation and the 'Porter Hypothesis'. In L. Marsiliani, M. Rauscher and C. Withagen (Eds.), *The International Dimension of Environmental Policy*. Kluwer Academic Publishers: Boston, MA; Dordrecht, Netherlands, 123-148.

Non Refereed Journal Article

Mahlich J. and T. Roediger-Schluga (2002): New opportunities for Asian pharmaceutical firms, *Asia Pacific Tech Monitor*, Jan-Feb 2002, pp 40-45.

Contributions in Conference Proceedings

Roediger-Schluga T. and M. Barber (2006): The structure of R&D collaboration networks in the European Framework Programmes, *11th ISS Conference, International J. A. Schumpeter Society*, Sophia-Antipolis, France, 21-24 June, 38 pp (available online at www.schumpeter2006.org/conftool/uploads/319/1-Paper_TRS_MB_ISS2006.pdf).

Roediger-Schluga, T. (2004), Best Available Technology from a Neo-Schumpeterian Perspective: A Re-Evaluation. *Proceedings of the 13th Annual Conference of EAERE* (CD-ROM), Budapest, Hungary, June 25-28, 25 pp, (also available at <http://eaere2004.bkae.hu>).

Roediger-Schluga, T. and B. Dachs (2004): Does technology affect network structure? A quantitative analysis of collaborative research projects in two specific EU

programmes. *10th ISS Conference, International J. A. Schumpeter Society*, Milan, Italy, June, 9-12, 34 pp, (available online at <http://www.schumpeter2004.uni-bocconi.it/papers.php>).

Roediger-Schluga T. (2002): Some microevidence on the 'Porter Hypothesis' from Austrian VOC emission standards, *Proceedings of the 42nd Congress of the European Regional Science Association*, Dortmund, Germany, August 27-31, 24 pp.

Wagner P., C. Schrefel and T. Roediger-Schluga (2000): Sustainable regional development: The case of biomass in the district of Güssing/Burgenland. In Buchinger E., Maderthaner R., Schrefel C. and Wagner P. (eds.): *Proceedings of the EuroConference 'Quality of Life – Sustainability – Environmental Changes: Event 3'*, OEFZS–S-0089/3, pp. 117-145.

Research Reports

Leo, H., M. Berger, M. Falk, R. Falk, K.S. Friesenbichler, H. Gassler, W. Hölzl, K.-H. Leitner, Brigitte Nones, T. Roediger-Schluga, C. Seibt, A. Schibany, C. Steindl and F. Unterlass (2007), Österreichischer Forschungs- und Technologiebericht 2007 [Austrian Research and Technology Report 2007]', BMWF, BMVIT, BMWA: Vienna, 181 pp.

Kubeczko K., M. Paier, T. Roediger-Schluga and D. Schartinger (2006): F&E-Positionierung – Internationaler Vergleich ausgewählter Stadt-Umland Regionen. ARC—sys/ZIT 0012, ARC systems research GmbH, ZIT Zentrum für Innovation und Technologie GmbH: Vienna, 38 pp.

Schibany A., M. Böheim, B. Dachs, R. Falk, H. Gassler, W. Hölzl, K. Kubeczko, K.-H. Leitner, S. Mahroum, B. Nones, W. Polt, T. Roediger-Schluga, I. Schacherl, C. Steindl, G. Streicher, M. Weber and B. Woitech (2006): Österreichischer Forschungs- und Technologiebericht 2006 [Austrian Research and Technology Report 2006]. BMBWK, BMVIT, BMWA: Vienna, 207 pp.

Roediger-Schluga T. (2005): The governance of interactions between large research organisations and universities in Europe – A selective country comparison, ARC—sys–0069, 40 pp.

Roediger-Schluga T. and K. Kubeczko (2005): Internationaler Vergleich präkompetitiver F&E Positionierung von Stadt-Umland Regionen, ARC—sys/ZIT 0004, ARC systems research GmbH, ZIT Zentrum für Innovation und Technologie GmbH: Vienna, 25 pp.

Roediger-Schluga T. and D. Schartinger (2004), European Innovation System (EIS) – Final Report, ARC—sys-0014, 42 pp.

Leo H., B. Dachs, M. Dinges, M. Falk, R. Falk, N. Knoll, F. Ohler, T. Roediger-Schluga, A. Schibany, H. Schiffbänker, M. Weber, K. Whitelegg and K. Zinöcker (2004), Österreichischer Forschungs- und Technologiebericht 2004 [Austrian Research and Technology Report 2004]', BMVIT, BMBWK: Vienna, 159 pp.

Roediger-Schluga T. (2003), European Innovation System (EIS) – Interim Report 2002, ARC–S-0215, 35 pp.

Hörlesberger M., T. Roediger-Schluga and N. Böck (2003): EICSTES (European Indicators, Cyberspace and the Science-Technology-Economy System) – Transborder Co-Operation. Deliverable 5.3b, Contract Number IST-1999-20350, ARC systems research: Seibersdorf, 45 pp.

- Hutschenreiter G., N. Knoll, H. Leo, M. Peneder, G. Booth, H. Gassler, N. Gretzmacher, W. Polt, A. Schibany, H. Schiffbänker, G. Streicher, B. Dachs, T. Roediger-Schluga, K. Whitelegg and J. Mahlich (2003): Österreichischer Forschungs- und Technologiebericht 2003 [Austrian Research and Technology Report 2003]. BMBWK, BMVIT, BMWA: Vienna, 191 pp.
- Roediger-Schluga T. (2003): The Techno-Economic Consequences of Environmental Regulation – The case of Austrian VOC emission standards. ARC–S-0194, 235 pp.
- Roediger-Schluga T. (2001): Intervention in complex systems – The case of Austrian VOC emission standards. In Buchinger E., Fröhlich J., Pohn-Weidinger S. and Roediger-Schluga T. (eds.): CPX – Intervenieren in komplexen Systemen, OEFZS–S-0117, pp. 95-136.
- Warta K., Polt W., Buchinger E., Noll M., Kopcsa A., Schibany A., Roediger-Schluga T., Mahlich J., Sint P.P., Paier M., Topolnik M. and Ohler F. (1999): *Ökonomie von Wissen und Information [Economics of Knowledge and Information]*, OEFZS–S-0043, 350 pp.
- Clement W., Farar D., Maurer C., Preissl M., Roediger-Schluga T. Seubert P. and Schröck T. (1998): *Bioenergie-Cluster Österreich [Bioenergy Cluster Austria]*, IWI-Studien, Vol. XXIX, 510 pp.
- Humpl S., Preissl M. and Roediger-Schluga T. (1998): *Bundesländerprofil Österreich [Country Profile – Austria]*, IWI: Vienna, 128 pp.

Other Academic Output

- Roediger-Schluga T. (2002): *The Techno-Economic Consequences of Environmental Regulation – The case of Austrian VOC emission standards*. Department of Economic Geography & Geoinformatics, Vienna University of Economics and Business Administration, Vienna, PhD Thesis, 235 pp.
- Roediger-Schluga T. (1996): *Protecting the Pension Promise – A comparative analysis of the statutory protection of pension benefits from occupational pension schemes in the U.K. and Austria*. Department of English Business Communication, Vienna University of Economics and Business Administration, Vienna, MA Thesis, 95 pp.

Work in Progress

- 'Does technology affect network structure? A quantitative analysis of collaborative research projects in two specific EU programmes' (jointly with Bernhard Dachs), UNU-MERIT working paper, 2006-041, available from <http://www.merit.unu.edu/publications/wppdf/2006/wp2006-041.pdf> (submitted for publication)
- 'The structure of R&D collaboration networks in the European Framework Programmes' (jointly with M. Barber), UNU-MERIT working paper, 2006-036, available from <http://www.merit.unu.edu/publications/wppdf/2006/wp2006-036.pdf>
- 'Environmental regulation and innovation: A Neo-Schumpeterian perspective'
- 'Best available technology from a Neo-Schumpeterian perspective: a re-evaluation'
- 'The political negotiation of environmental regulation and technological change – the case of Austrian VOC emission standards'
- 'Mapping evolutionary economics – a bibliometric analysis' (jointly with Bernhard Dachs)

Conference Presentations

- Roediger-Schluga T. and M. Barber (2006): The structure of R&D collaboration networks in the European Framework Programmes, *11th Annual Conference of the International Schumpeter Society*, "Innovation, competition and growth: Schumpeterian perspectives", Sophia-Antipolis, France, 21-24 June 2006.
- Mahlich J. and T. Roediger-Schluga 'The determinants of pharmaceutical R&D: evidence from Japan', *Academy of International Business Annual Meeting*, Beijing, China, June 23–26, 2006
- Roediger-Schluga T. 'A neo-Schumpeterian perspective on environmental regulation and innovation: Evidence from Austrian VOC emission standards', *OECD Conference on Public Environmental Policy and the Private Firm*, Washington D.C., United States, June 2005
- Roediger-Schluga T. 'Best available technology from a Neo-Schumpeterian Perspective: A Re-Evaluation', *13th Annual Conference of the European Association of Environmental and Resource Economists (EAERE)*, Budapest, Hungary, June 2004
- Roediger-Schluga T. and B. Dachs 'Does technology affect network structure? A quantitative analysis of collaborative research projects in two specific EU programmes', *10th Annual Conference of the International Schumpeter Society*, Milan, Italy, June 9–12, 2004
- Dachs B. and T. Roediger-Schluga 'Patterns of research collaboration – A quantitative analysis of joint research projects in ACTS and FAIR', *3rd European Meeting on Applied Evolutionary Economics (EMAE)*, Augsburg, Germany, April 2003
- Roediger-Schluga T. 'Some microevidence on the 'Porter Hypothesis' from Austrian VOC emission standards', *42nd Congress of the European Regional Science Association (ERSA)*, Dortmund, Germany, August 2002
- Mahlich J. and T. Roediger-Schluga 'The changing nature of pharmaceutical R&D – opportunities for Asia?', *78th Conference of the Applied Econometrics Association*, Brussels, Belgium, November 2001
- Roediger-Schluga T. 'Some micro-evidence on the 'Porter Hypothesis''. *2nd EURESCO Conference on 'The International Dimension of Environmental Policy'*, Aquafredda di Maratea, Italy, October 2001
- Dachs B., T. Roediger-Schluga, C. Widhalm and A. Zartl 'Mapping evolutionary economics – A bibliometric analysis'. *2nd European Meeting on Applied Evolutionary Economics (EMAE)*, Vienna, Austria, September 2001
- Roediger-Schluga T. 'The political negotiation of environmental regulation and technological change – The case of Austrian VOC emission standards', *3rd International POSTI Conference*, London, UK, December 2000
- Roediger-Schluga T. 'The stringency of environmental regulation and the 'Porter Hypothesis'', *1st EuroConference on 'Environmental Policy, Competitiveness and the Location Behaviour of Firms'*, Kerkrade, Holland, October 2000
- Wagner P., C. Schrefel and T. Roediger-Schluga 'Sustainable regional development: The case of biomass in the district of Güssing/Burgenland'. *EuroConference 'Quality of Life –*

Sustainability – Environmental Changes: Event 3, Stadtschlaining, Austria, April 2000

Presentations at Symposia and Workshops

- Roediger-Schluga T. 'Comments on M. Shapiro "Public-Private R&D Collaboration in Korea: A Survey of Public Sector Institutes"', *Austrian Federal Economic Chamber, Innovation and Technology in Korea*, Vienna, Austria, October 2005
- Roediger-Schluga T. 'Analysing the EU funded R&D collaboration graphs. Methodology and Data', *EXYSTENCE Thematic Institute for Complexity and Innovation*, Vienna, Austria, September–October 2004
- Roediger-Schluga T. 'Analysing R&D collaboration networks. Why, how and to which purpose?', *Madeira Math Encounters XXVII, Networks, Stochastic Analysis, Production Engineering*, Funchal, Portugal, July–October 2004
- Roediger-Schluga T. 'The political negotiation of environmental regulation and technological change', *BMBF International Summer School on Economics, Innovation, Technological Progress and Environmental Policy*, Seon, Germany, September 2001
- Roediger-Schluga T. 'The stringency of environmental regulation and the 'Porter Hypothesis'', *European Summer School on Industrial Dynamics (ESSID)*, Cargese, France, September 2000
- Roediger-Schluga T. 'Environmental regulation and innovation – Some methodological remarks', *Economics of Technological and Institutional Change (ETIC) Doctoral Training Program*, Maastricht, Holland, October 1999
- Roediger-Schluga T. 'Environmental regulation and innovation – The case of Austrian VOC standards'. *European Summer School on Industrial Dynamics (ESSID)*, Cargese, France, September 1999